What is claimed is:

1. A method of generating a content signature for a signal comprising the steps of:

dividing the signal into at least one set; transforming the set into a frequency-based domain; determining features of the transformed set; and grouping the features to comprise a content signature of the set.

- 2. A method according to claim 1, wherein the features comprise perceptually relevant features.
- 3. A method according to claim 1, wherein the features comprise frequency magnitude peaks.
- 4. A method according to claim 1, further comprising the step of storing the content signature.
- 5. A method according to claim 1, wherein the step of grouping comprises one of the steps of hashing the features, mathematically representing the features, and mapping the features.
- 6. A method according to claim 1, further comprising the step of storing the content signature in a database.
 - 7. A method according to claim 1, further comprising the steps of: dividing the signal into a plurality of sets; transforming each of the plurality of sets into a frequency-based domain; determining features for each of the plurality of transformed sets;

grouping the features per set to comprise a respective signature for each of the sets; and

linking the respective signatures.

- 8. A method of resolving a stream of content signatures, the content signatures corresponding to sets of a content item, said method comprising the steps of: applying Viterbi decoding according to the stream of content signatures; identifying a content item corresponding to the stream; and accessing information related to the content item.
- 9. A method of generating a content signature from compressed data, the compressed data having m bits, said method comprising the steps of: extracting n of the most significant of the m bits, where m > n, and n and m are

integers; and

storing the n bits as the content signature.

10. A method of generating a content signature from a content item comprising the steps:

in a compressed domain, identifying scaling features of the data; and grouping the scaling features to form a content signature.

11. A method of generating a content signature for a signal comprising the steps of:

dividing the signal into at least one set; and identifying perceptual edges of the set, the edges comprising the signature of the

set.

12. A method of generating a content signature for a signal comprising the steps of:

applying trellis coded quantization to a data set to find a minimum relationship between the data set; and

storing the minimum relationship as a signature of the data set.

- 13. A method according to claim 12, wherein trellis coded quantization can be modeled as a trellis diagram representing the data, and the minimum relationship is the shortest distance through the trellis diagram.
- 14. A method of deriving a content signature for a content item, the content item comprising a digital watermark embedded therein, the digital watermark comprising at least a grid component, said method comprising the steps of:

decoding the embedded digital watermark from the content item to retrieve the grid component;

rescaling the content item based on the grid component; and deriving a content signature for the content item.

- 15. The method of claim 14, wherein said rescaling comprises at least one of rotating the content item, scaling the content item and translating the content item.
- 16. The method of claim 15, wherein the content item comprises one of audio, video and image data.
- 17. A method of handling a content item, the content item comprising a digital watermark embedded therein, the digital watermark comprising at least a message, said method comprising the steps of:

decoding the digital watermark to obtain the message; and deriving a content signature for the content item.

- 18. The method of claim 17, wherein the message comprises a content distributor identifier to be used to identify the distributor of the content item.
- 19. The method of claim 18, wherein the content signature is used to identify the content item.
- 20. The method of claim 19, further comprising the steps of selecting a database for interrogation based on the distributor identifier, and identifying information associated with the content item and stored in the selected database with the content signature.
 - 21. The method of claim 17, wherein the message comprises a content signature.
- 22. The method of claim 21, further comprising the step of comparing the message content signature with derived content signature.
- 23. The method of claim 22, further comprising the step of deeming the content item authentic when the message content signature and the derived content signature coincide.
- 24. The method of claim 17, wherein the message comprises a trigger to indicate that said deriving step should be performed.
- 25. A method to derive a content signature for a video frame or image comprising the steps of:

identifying an area in the video frame or image;

determining a center of mass of the video frame or image; and

providing a content signature for the video frame or image based at least on the center of mass.

- 26. The method of claim 25, wherein in the center of mass is determined by identifying edges of the area and then determining a center based on the identified edges.
- 27. The method of claim 25, wherein the area comprises a plurality of pixels, and wherein in the center of mass is determined by multiplying each pixel's luminescence with its location from a predetermined reference point in the area, summing all pixels, and dividing by the average luminescence of the pixels.
- 28. The method claim 27, wherein the area comprises a plurality of color planes, and a center of mass is calculated for each color plane.
- 29. The method of claim 25, further comprise the step detecting edges in the area before said step of determining a center of mass.
 - 30. The method of claim 25, wherein the area comprises an object.
 - 31. The method of claim 25, wherein the area comprises a video frame.
- 32. A method of generating a fingerprint related to a content item comprising the steps of:

pseudorandomly selecting a segment of the content item; and fingerprinting the selected segment of content item.

- 33. The method of claim 32, wherein the segment is pseudorandomly selected based on a known key.
 - 34. The method of claim 33, wherein the known key comprises a user identifier.

- 35. The method of claim 32, wherein the fingerprinting comprises at least one of mapping perceptually relevant features, a frequency domain analysis, hashing and a lossy transformation.
- 36. A method of calculating a content signature from a content item, the content item comprising at least one cue signal, said method comprising the steps of: sensing the cue signal from the content item; and upon sensing the cue signal, determining a content signature for at least a portion of the content item.
- 37. The method of claim 36, wherein the content item is video and the cue signal comprises a fade to black indicator.
- 38. The method of claim 36, wherein the cue signal comprises a pattern of frequency components for the content item.
- 39. The method of claim 36, wherein the content item is video and the cue signal comprises a contrast of a center of a video frame.
- 40. The method of claim 36, further comprising the step of determining timing intervals within the content item based on the cue signal.
- 41. A data management method comprising the step of:
 deriving a content signature from a content item; and
 providing the content signature to a database constructed as content addressable
 memory (CAM); and

obtaining data from the database associated with the content signature.

42. The method of claim 42, wherein the data comprises at least one of a URL, IP address and metadata.

43. The method of claim 41, wherein the database includes groups of sub-fingerprints, and the content signature is used interrogate the database to identify a related group of sub-fingerprints.